

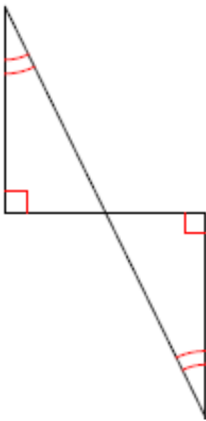
Unit 4 WORKSHEET 8 (HL)

Decide if the following triangles are congruent by SSS, SAS, ASA, AAS, HL or NONE.

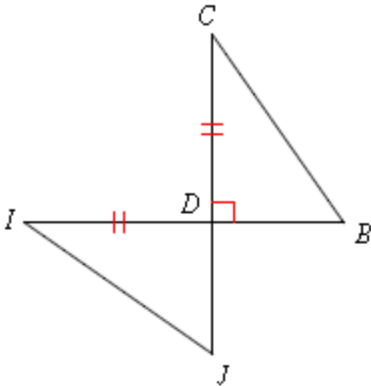
1.



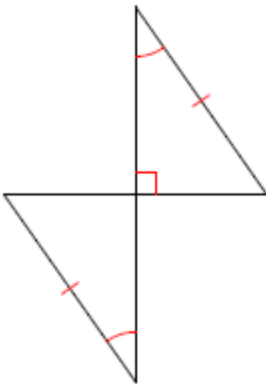
2.



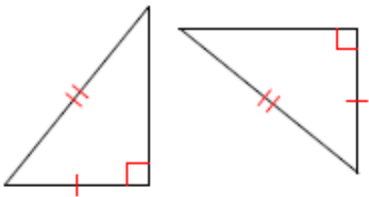
3.



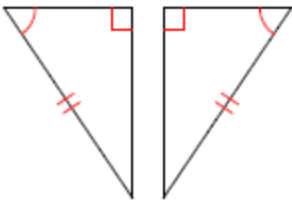
4.



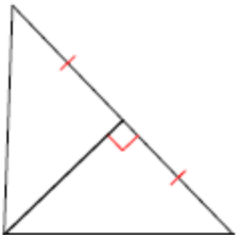
5.



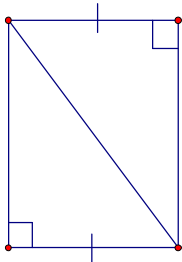
6.



7.

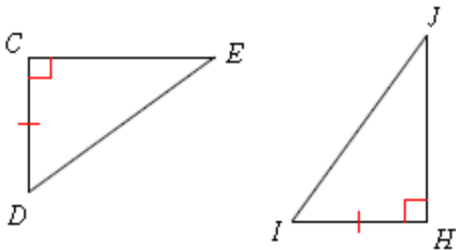


8.

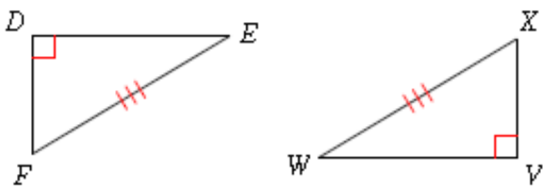


State what additional information (not what you can already assume from the picture) is required in order to know that the triangles are congruent for the reason given.

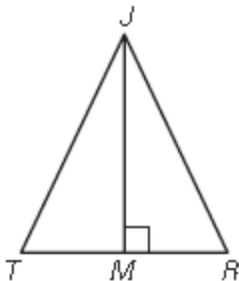
9. HL



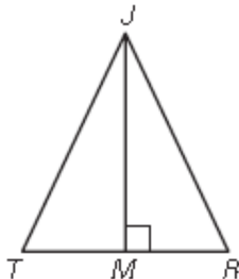
10. HL



11. HL



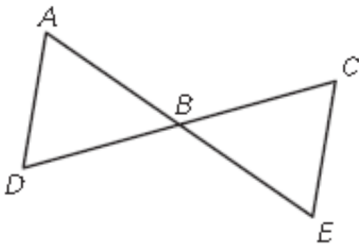
12. SAS



Fill in the blanks for the given proofs.

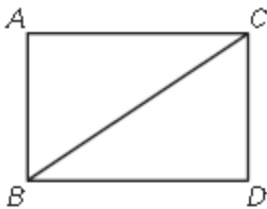
13. GIVEN: B is the midpoint of \overline{AE} .
 B is the midpoint of \overline{CD} .

PROVE: $\triangle ABD \cong \triangle EBC$



Statements	Reasons
1.	1.
2.	2. def. of midpoint
3.	3. vertical angles
4.	4.

14. GIVEN: $\overline{AB} \cong \overline{DC}$, $\overline{BA} \perp \overline{AC}$, $\overline{CD} \perp \overline{DB}$
 PROVE: $\triangle ABC \cong \triangle DCB$



Statements	Reasons
1.	1.
2.	2. def. of \perp lines
3.	3. reflexive
4.	4.